L 18479-63

ACCESSION NR: AP3005499

4

ertial term is omitted from the electron equation of motion. An appropriate steady state solution is written, and from the corresponding linearized perturbation equations, the dispersion equation is obtained for waves propagating transversely to the magnetic field. The cases of strong magnetic field (ion cyclotron) frequency much greater than the ion collision frequency) and weak magnetic field are treated separately. In the case of strong magnetic field were, however, the electron collision frequency greatly exceeds the ion cyclotron frequency, it is found that instability occurs at frequencies of the order of the ion cyclotron frequency provided $ML^2(dn/ndx)^2/m > 1$, where M and m are the ion and electron masses, L is the electron Larmor radius, and n is the electron (and ion) particle density. In the case of weak magnetic fields it is found that instability occurs at frequencies large compared with the ion cyclotron frequency provided the square of the ratio of the ion cyclotron frequency to the ion collision frequency exceeds the ratio of the ion mobility to the electron mobility. The physical nature of the mathematically revealed instabilities is briefly discussed. "The author expresses deep gratitude to V.V. Kadomtsev, under whose direction this work was performed, and to A.A. Vedenov and Ye.P. Velikov for their interest in the work." Orig. art. has: 15 formulas.

ASSOCIATION: none SUBMITTED: 07Jun62

SUB CODE: PH

DATE ACQ: 06Sep63 NO REF SOV: 002 ENCL: 00 OTHER: 001

Card 2/2

AID Nr. 981-15 3 June CYCLOTRON INSTABILITY OF INHOMOGENEOUS PLASMA (USSR)

Mikhaylovskiy, A. B., and A. V. Timofeyev. Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 44, no. 3, Mar 1963, 919-921.

S/056/63/044/003/024/053

Longitudinal oscillations of inhomogeneous plasma are analytically investigated at low plasma pressures and at frequencies which are multiples of ionic cyclotron frequencies. The dispersion equations, which represent the generalization of the Rosenbluth, Krall, and Rostoker equation, are investigated for the presence of ion-induced cyclotron harmonics under the assumption that electron temperature is zero and that the wave is propagated transversely to a magnetic field. The analysis shows that instability is present whenever the oscillation frequency is close to any integral multiple of the cyclotron frequency. In such a case the waves are unstable whether they propagate in the direction of electron drift or in the direction of ion drift.

Card 1/1

PISTUNOVICH, V.1.; TIMOFEYEV, A.V.

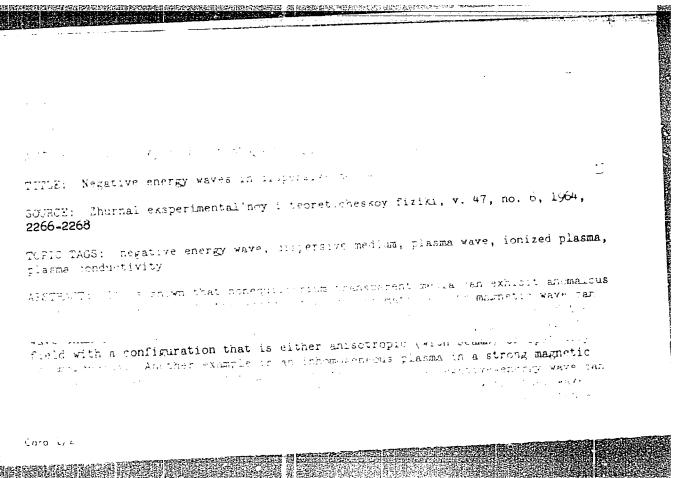
Heating of electrons in an anisotropic plasma. Dokl. AN SSSR 159 no.4:779-781 D 164 (MIRA 18:1)

1. Predstavleno akademikom M.A. Leontovichem.

KADOMTSEV, B.B.; MIKHAYLOVSKIY, A.B.; TIMOFEYEV, A.V.

Waves with negative energy in dispersive media. Zhur.eksp. i
teor.fiz. 47 no.6:2266-2268 D *64.

(MIRA 18:2)



L 23083-65 ACCESSION NR: AP5001850

of the wave, but to growth. A similar amplification effect arises when the wave is reflected from the boundary of a medium of an intelloperation is of the opposite algh. Attated effects are the reflection of a sound wave from a supersonic stream, and the production of pairs of wave, with positions and the production of pairs of wave, with positions and the production of pairs of wave, with positions and negative energy radiatived surface with infinite reflection coefficient (Depending an association of sound waver) or in the affinite making at

the directed velocity of electrons in a weakly ionized plasma in a longitudinal electric field is much smaller than the thermal conductivity. Negative energy the negative-energy effect is only apparent and can be removed by conversion to another coordinate system are discussed. Only apparent and can be removed by conversion to

ASSOCIATION: None

SUBMITTED: 23Jun64

ENCL: 00

SUB CODE: ME, GP

NO REP COVE : : :

6--- ---

TIMOFEYEV, A.V.

Instability of a gas discharge in a magnetic field devoid of longitudinal current. Dokl. AN SSSR 152 no.1:84-87 S '63.

(MIRA 16:9)

1. Predstavleno akademikom M.A.Leontovichem.

(Electric discharges through gases)

L 13265-65 EWT(1)/EWG(k)/ED3/SD1-2/ED3(W)-2/ED3(L)/TURNID-2/EVALUA-2

ESD(gs) AT

ACCESSION NR: AP5000912 S/0020/04/153/004/0779/0781

AUTHOR: Pistunovich, V. I.; Timofeyev, A. V.

TITLE: Concerning the heating of electrons in an anisotropic plasma

SOURCE: AN SSSR. Doklady, V. 159, no. 4, 1964, 779-781

TOPIC TAGS: plasma instability, electron heating, plasma electron, plasma ion, low pressure plasma, adiabatic trap

ABSTRACT: It is shown that the instability relative to the buildup of potential possiblations, observed previously in low-pressure plasma with anisotropic dispensations, observed previously in low-pressure plasma with anisotropic dispensations.

Card 1/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

L 18265-65

ACCESSION NR: AP5000912

authors are grateful to B. B. Kadomtsev and A. B. Mikhaylovskiy for a discussion of the work." This report was presented by Academician M. A. Leontovich. Orig.

ASSOCIATION: None

SUBMITTED: 16Jun64

> ENCL: ∞

SUB CODE: ME

NR REF SOV: 006

OTHER: 002

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

L 10673-66 EWT(1)/ETC/EWG(m) IJP(c) AT
ACC NR:
AUTHOR: Glasko, V.B.; Sveshnikov, A. G.; Semashko, N.H.; Timofcyev, A.V.
ORG: Physics Department, Moscow State University im. M.V. Lomonosov (Moskovskiy gosudarstvennyy universitet, Fizicheskiy fakul tet)
TITLE: On the deceleration of ions in an arc discharge in a magnetic field
SOURCE: Zhurnel tekhnicheskoy fiziki v. 35, no. 11, 1965, 2083-2091
TOPIC TAGS: plasma injection, magnetic mirror machine, gas discharge plasma, plasma beam interaction, ion beam, ion energy, charge exchange
ABSTRACT: The authors calculate the rate of deceleration of high energy ions owing to their passage through, and interaction with an arc discharge plasma in a longitudinal magnetic field. The calculations were undertaken because of the practical tudinal magnetic field. The calculations were undertaken because of the practical use of an arc discharge to accelerate the dissociation of molecular ion beams employed use of an arc discharge to accelerate the dissociation of molecular ion beams employed use of injecting plasma into adiabatic plasma-confining systems. The interaction of a for injecting plasma into adiabatic plasma-confining systems.
high energy ion with the arc plasma is described by an equation of the arc rate of energy loss is calculated for an ion whose Larmor orbit intersects the arc rate of energy loss is calculated for an ion whose Larmor orbit intersects the arc rate of energy loss is calculated both for the steady state that is the energy distribution of the ions is calculated both for the steady state between pulses.
A numerical solution for ion energies between 15 and 52.5 hours an
Card 1/2

	For the comachine), the arc plis determine	the relax asma is 0 ned mainl hange col	obtaining ation to the control of th	me for and inter with no	decelera t is conc raction a eutral at	tion of luded th nd not b oms. Th	ation (Sov the ions by lat the den- ly loss of l le authors is as and 4 fig	y their sity of ligh end thank L	interaction high energy ions	on with gy ions
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L 36227-66 EWT(1) IJP(c) AT SOURCE CODE: UR/0386/66/004/002/0048/0051
ACC NR: AP6024512
AUTHOR: Timofeyev, A. V.
ORG: none
TITLE: Cyclotron radiation flashes SOURCE: Zh eksper i teor fiz. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 2, 1966,
48-51
TOPIC TAGS: plasma containment, plasma oscillation, cyclotron frequency, plasma charged particle, dispersion equation ABSTRACT: The author relates the explosive character of cyclotron radiation accompanied by ejection of particles in the form of bursts spaced periodically in time, as nied by ejection of experiments on adiabatic plasma containment, with certain observed in a number of experiments on adiabatic plasma containment, with certain osingularities in the development of cyclotron oscillations with negative energy, singularities in an anisotropic plasma if the plasma-particle velocity distribution is far from equilibrium. The condition under which the oscillations can have tion is far from equilibrium. The condition under which the oscillations of the plasma, after which the nonlinear effects of interaction between oscillations of the plasma, after which the nonlinear effects of interaction between oscillations with opposite sign of energy are evaluated. It is shown that the periodic tions with opposite sign of energy pumping, induced by the nonlinear processes, bursts of radiation are due to energy pumping, induced by the nonlinear is eventually between the growing and damped oscillations, and the growth of the burst is eventually limited by the available energy. Although the analysis is presented for a plasma with
Card 1/2

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ACC NRI APG033413

SOURCE CODE: UR/0057/66/036/010/1787/1799

AUTHOR: Timofeyev, A.V.

ORG: none

TITLE: Concerning fluted oscillations of a rarefied plasma in the presence of uncompensated space charge

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 10, 1966, 1787-1799

TOPIC TAGS: rarefied plasma, plasma stability, space charge, nonuniform plasma, initial value problem, Laplace transform

ABSTRACT: The author discusses fluted oscillations in a rarefied plasma in which the ion Larmor radius is much smaller than the ion Debye radius and there is a large uncompensated space charge. From Poisson's equation and the hydrodynamic equations of continuity, linearized for small perturbations of the particle densities, there is derived a differential equation for the self consistent perturbation of the electric potential. If the space charge density is sufficiently high this equation has singular points where the particle velocity becomes equal to the phase velocity of the waves. The equation is modified in the neighborhood of the singular points by inclusion of the effect of the finite value of the Larmor radius. It is found that if the electric field due to the uncompensated space charge is sufficiently strong and varies linearly with distance, the modified equation may have no localized eigenfunctions. The

Card 1/2

SUB CODE: 20	SUBM DATE: 09Nov65	ORIG. REF: 012	OTH REF: 004
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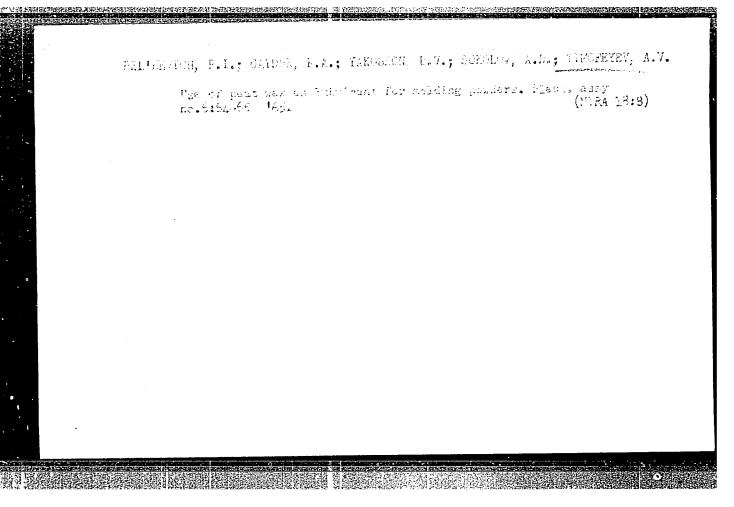
PANOVA, N.M.; SOKOLOV, A.D.; TIMOPEYEV, A.V.; FEDOROV, S.V.

Effect of the quality of mummy on the dielectric strength of molding powders. Plast. massy no.12;62-64 '60. (MIRA 13:12) (Plastics-Electric properties) (Pigments)

SOKOLOV, A.D.; MIKHAYLOVA, T.N.; TIMOFEYEV, A.V.; YAKOBSON, B.V.

Factors affecting the hardening of novolac molding powders. Plast.massy no.10:22-24 '61. (Plastics--Kolding)

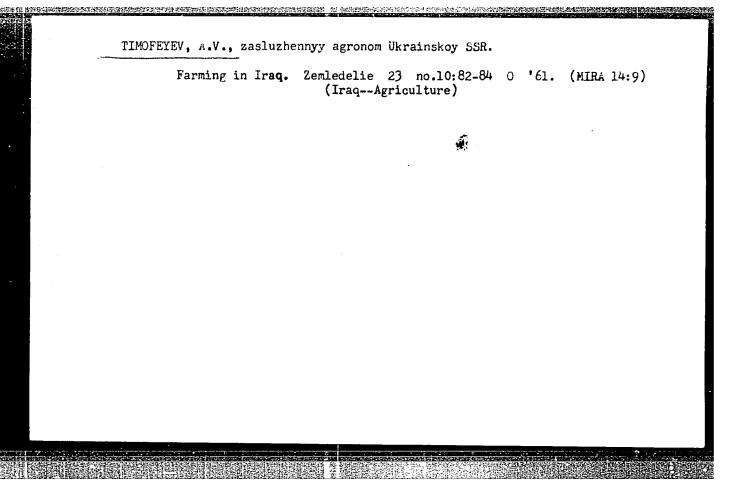
(Plastics--Kolding)



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THE AS Foyder, I. Yaki Karing Carling Community		To the second of the second	<u> </u>	<u> 3, 7,: </u>
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SOURCE Byolieten confine tening to the	14	. 54.		•
TOPIC TAGS: phenolic aldehyde, press				
	ing powd esents a	er, filler method for	, poal, ash botaining pr botaining pr botaining pr	nenolic aldeh
TOPIC TAGS: phenolic aldehyde, press ABSTRACT: This Author Certificate propressing powders with the application of follows and lower the cost of the	ing powd esents a	er, filler method for	, poal, ash botaining pr botaining pr botaining pr	nenolic aldeh
TOPIC TAGS: phenolic aldehyde, press ABSTRACT: This Author Certificate propressing preders with the application of fillers and lower the cost of the last the cost of the cos	ing powd esents a	er, filler method for	obtaining proceden	nenolic aldeh

ACC NR. AP6009871 (A) SOURCE CODE: UR/0413/66/000/004/0068/00 INVENTOR: Petrov. K. D.; Sokolov. A. D.; Kagucheva, Ye. S.; Timofeyev, A. V.; Slozhenikina, N. M.; Soldatova, Ye. A. ORG: None TITLE: Preparation of molding material with novolak resin. Class 39, No. 178978 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 68 TOPIC TAGS: molding material, novolak resin and a nitrogen-containing organi compound. To extend the variety of molding materials with high dielectric proper anhydroformaldehyde aniline is suggested as the oxygen-containing organic compound. [L] SUB CODE: 11/ SUBM DATE: 14Jul62	llins
Card 1/1 /	

ACC	686-66 EWP(1)/EWT(m)/I IJP(c) RM/GD-2 NRI AP6009533 (N) SOURCE CODE: UR/0413/66/000/005/0069/0069
INV Fay	ENTOR: Pevzner, L. V.; Akutin, M. S.; Mikheyev, I. P.; //del', I. Ya.; Sokolov, A. D.; Timofeyev, A. V.
ORG	: none
TIT	LE: Method for obtaining compacts. Class 39, No. 179466
SOU	RCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, 5, 1966, 69
TOP	IC TAGS: polyvinyl chloride, phenolformaldehyde, compact
tai the phe	TRACT: An Author Certificate has been issued for a method of ob- ning compacts by combining phenol resin with polyvinyl chloride in filler, using a mechanochemical method. Phenol resins and anil nolformaldehyde resins are used to obtain materials which are ervious to water, chemical, and tropical conditions. [NT]
SUB	CODE: 11, 07/ SUBM DATE: 27Nov64/
	d 1/1 cl UDC: 678.632.743.22.067.023.32



TIMOFETEV, A.V., inzh.

Structural defects in the E-10011 excavator. Mekh. stroi. 18 (MIRA 16:7)

(Excavating machinery)

COLUMN DE LA COLUM

SOKOLOV, A.A.; BEL'KEVICH, P.I.; CHULYUKOV, M.A.; MIKONOV, M.N.; OZOLINA, Z.D.; TIMOFEYEV, A.V.

Research and experimental designing and prospects for their further development. Torf. prom. 37 no.5:12-18 '60. (MIRA 14:10)

- 1. Vsesoyuznyy nauchno-issledovatel'skiy institut torfyanoy promyshelmnosti (for Sokolov). 2. Institut torfa AN BSSR (for Bel'kevich). 3. Kalininskiy torfyanoy institut (for Chulyukcv). 4. TSentral'naya torfo-bolotnaya opytnaya stantsiya (for Nikonov).

 5. Vsesoyuznyy institut udobreniy i agropochvovedeniya (for
- Ozolina).

(Peat industry)

USYUKIN, I.P.; SHELYNIKOV, V.M.; TIMOFEYEV, A.V.; SHCHEKINA, G.N.

Effect of carbonic acid on the solubility of acetylens in acetone and methanol at low temperatures. Nefteper. 1 neftekhim. no.11:35-40 °63. (MIRA 17:25)

1. Moskovskiy institut khimicheskogo mashinostroyeniya.

KITAYNIK, A.U.; LARIONOV, N.N., zhurnalist; BRATCHIKOV, B., zhurnalist;

BYKOV, V., zhurnalist; VOLKOV, Ye., zhurnalist; VOSKRESENSKIY, N.,

zhurnalist; GERVASH, A., zhurnalist; GORDIN, A., zhurnalist;

GILENKO, A., zhurnalist; DASHKOV, S., zhurnalist; DROBOTUSHENKO, A.,

zhurnalist; YERSHOV, N., zhurnalist; ZHUIYABIN, A., zhurnalist;

KRASNOV, I., zhurnalist; LUCHINETSKIY, Ye., zhurnalist; LYKOV, M.,

zhurnalist; MEYSAK, N., zhurnalist; PADERIN, G., zhurnalist; PAL'M, A.,

zhurnalist; PONOMAREV, P., zhurnalist; RUBINA, M., zhurnalist; TAGIROV, T.,

zhurnalist; TIMOFEYEV, B., zhurnalist; YANSHIN, V., zhurnalist;

TRUBITSIN, N.A., ctv.red.; OMBYSH-KUZNETSOV, S., red.izd-va; TOBUKH, A.,

tekhn.red.

[Novosibirsk; a collection] Novosibirsk; sbornik. Novosibirskoe knizhnoe izd-vo, 1961. 180 p.

(Novosibirsk--Description)

MARKOV, A.A., prof.; STEPANOVA, N.I., starshiy nauchnyy sotrudnik; TIMOFEYEV, B.A., starshiy nauchnyy sotrudnik

Studying toxoplasmosis in swine. Veterinariia 42 no.7:45-46
Jl '65. (MIRA 18:9)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

•	Globidiosis in sheep. Veterinariia 42 no.7:47-50 Jl '65. (MIRA 18	3:9)
	l. Vsesoyuznyy institut eksperimental noy veterinarii.	,
•		

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MARKOV, A.A., prof.; Simplicative, N.I., stargedly measuring solution; TEMPTYNEY, B.A., misdehily nauchnyy solution;

Toxoplasmosis in sheep. Veterinarila 41 no.5:66-59 TV 144.

(MRA 18:3)

1. Vsesoyuznyy institut eksperimental'noy veterinaril.
```

TIMOFEYEV, B. A. (Junior Scientific Worker, All-Union Institute of Experimental Veterinary Medicine [VIEV]).

"Role of swine trichomonads in the epizootiology of trichomoniasis in cattle"

Veterinariya, vol. 39, no. 9, September 62, p. 37

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

S/194/61/000/007/024/079 D201/D305

16.8000 AUTHOR:

Timofeyev, B.L.

TITLE:

Mechanization of the process of determining minimal variants of relay systems in the class of normal

functions disjunction

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1961, 52-53, abstract 7 V390 (V sb. Avtomat. upravleniye, M., AN SSSR, 1960, 345-353)

The classification of methods (M) of minimizing relay cir-TEXT: cuits is given. The classification is based on the method of determining simple terms. All M are divided into 2 groups. To the first group belong all M, in which simple terms are obtained by any of the transformations of the original formula, to the second - those M in which simple terms are obtained by comparison of the tentative with the given function as represented in the form of a manipulation chart. The characteristics are given of two M of minimization.

Card 1/2

S/194/61/000/007/024/079 D201/D305

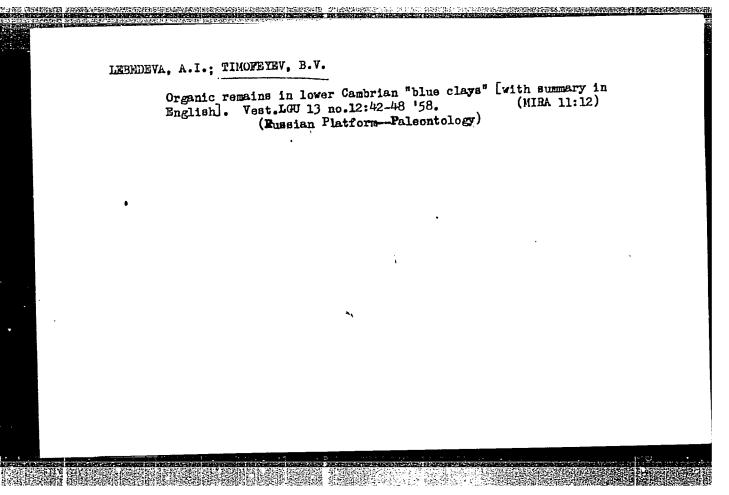
Mechanization of the process...

With many variables - the problem of minimization of relay circuits is too cumbersome for the human mind. The mechanization of the process of attaining min. initial forms of functions of genuineness is considered. The machine for minimization consists of two parts, in accordance with the algorithm which it represents. The first part of the machine produces all simple terms of the given function while the other makes out of them its minimized form. The bloc-diagram of the machine is given. 4 figures. 18 references. Abstracter's note: Complete translation

B

Card 2/2

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"



TIMOFEYEV	, A.V.
Section of which the section of the	New design for the milling drum. Torf.prom. 35 no.2:25 '58. (MIRA 11:5)
	1. Rukovoditel' gruppy filiala Vsesoyuznogo nauchno-issledovatel'skogo instituta torfyanoy promyshlennosti. (Peat machinery)

TIMOFEYEV, B. Captain

"Physical Training on Days of Freconditioning for Flights," Krasnaya Zvezda, p.2, 16 Jun 55

Translation of article - D 311964, 17 Aug 55

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

"Cur Experience With Conducting Athletic Games," translated from the article "Pilots' Athletic Games," Vest. Vozd. Flota, No.5, 1955, pp 47-51.

D 311967, 12 Aug 55

TIMOFEYEV, B., k and geologo-mineralog nauk

Traces of life in meteorites. IUn.tekh. 7 no.1:37-39 Ja '63.

(MIRA 16:5)

(Plenty of worlds)

TIMOFEYEV, B.

AID P - 1984

Subject

: USSR/Aeronautics

Card 1/1

Pub. 135 - 8/20

Authors

: Bryanov, I., Gorbov, F., Lt. Cols. of the Medical Service.

and Timofeyev, B., Sen. Lt.

Title

: Flyers' sport games

Periodical: Vest voz flota, 5, 47-51, My 1955

Abstract

In the first part of this article, "Some problems of physiology", the author explains physiological reactions in flight and the possibility of developing certain necessary flying qualities. In the second part, "Our experiment in leading sport games", the author cites the advantages of games over other physical exercises and gives examples of special training which may be acquired

in games.

Institution:

None

Submitted: No date

CIA-RDP86-00513R001755710019-5" APPROVED FOR RELEASE: 07/16/2001

TIMOFFYEV, B., inzh.-polkovnik

Self-contained high-frequency telephone equipment with semiconductor triodes(from "Telettra," Tachnical Information Bullotin, Mileno, April 1956); Voen. sviez. 16 no. 6:46-47 Je '53. (MIRA 11:7)

(Italy--Telephone--Zquipment and supplies)

SOV/26-59-4-42/43

AUTHOR:

Timofeyev, B.A. (Rzhev)

TITLE:

Spring Bursting (Vesenneye "vypuchivaniye" predmetov)

PERIODICAL:

Priroda, 1959, Nr 4, pp 126-127 (USSR)

ABSTRACT:

The author describes a peculiar natural phenomenon occuring early in spring after the last snow has gone. Various objects such as posts, sticks, and pillars, etc., are creeping out of the earth, which is swelling and thus also causing rifts and ruptures

in roads. There are 2 photos.

Card 1/1

TIMOFEYEV, B. A., inzh.

Investigating the noise of reducing gears with bodies and caps made of various materials. Vest. mashinostr. 42 no.10:17-19 (MIRA 15:10)

(Gearing-Noise)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

TIMOFEYEV, B.A.

Riometrical study of Trichomonas in swine and Tritrichomonas foetus (Riedmueller, 1928). Trudy VIEV 26:148-156 62. (MIRA 16:2)

1. Laboratoriya protozoologii Vsesoyuznogo instituta eksperimental!noy veterinarii.

(Trichomonas) (Parasites—Swine)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

TIMOFEYEV, B.A., kand.veterin.neok

Pathogenicity of trichomonads from the nasal cavity of swine with infectious atrophic rhinitis. Veterinariia 40 no.9:25-26 S 63. (MIRA 17:1)

1. Vsesoyuznyy institut eksperimental'noy veterinarii.

GRISHUKOV, L.S., inzh. (g.Leningrad); LUPKIN, D.M., dotsent (g.Leningrad);

TIMOFEYEV, B.A., inzh. (g.Leningrad)

Main line electric locomotive operated on direct and alternate current. Zhel.dor.transp. 42 no.5:56-59 My '60. (MIRA 13:9)

(Electric locomotives)

THOPEVER Borie Aleksandrewick GNUTIKOV, P.I., podpolkovník, redaktor;

ZUDINA, M.P., tekhnicheskiy redaktor

[New multichannel telephone communication system of the U.S.Army]

Novye mnogokanal nye talefonnye sistemy sviazi v Armii SShA.

Moskva, Voen.izd-vo M-va obor. SSSR, 1957. 109 p. (MIHA 10:11)

(Telephone)

MIKULINSKIY, M. A., inzh.; SISIN, A. G., inzh.; TIMOFEYEV, B. A., inzh.; BULATOW, V. G., inzh.

Analytical method of determining the optimum parameters of dumps when truch haulage is used. Izv. vys. ucheb. zav.: gor. zhur. 5 no.8:18-25 '62. (MIRA 15:10)

1. Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut, mednoy promyshlennosti. Rekomendovana kafedroy otkrytykh rabot Sverdlovskogo gornogo instituta imeni Vakhrusheva.

(Mine haulage)

TIMOFEYEV. B.V.

Generalized formula for deflection angles of an eccentric, loaded, plane rectangular die block in an elastic semi-space. Soob.AN Gruz. SSR 14 no.8:487-492 53. (MLRA 7:5)

1. Tbilisskiy filial Vsesoyuznogo n.i. instituta elektrifikatsii sel°skogo khozyaystva Akademii sel°skokhozyaystvennykh nauk im. V.I. Lenina. Predstavleno deystvitel'nym chlenom Akademii K.S.Zavriyevym. (Foundations) (Mathematical physics)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

TIMOFFYEV, Boris Aleksandrovich; CNUTIKOV, P.I., podpolkovnik, red.;

ZUDINA, M.P., tekhn.red.

[New multichannel telephone communication systems of the U.S. Army] Novye mnogokanal nye telefonnye sistemy sviazi v Armii SSha. Moskva, Voen.izd-vo M-va obor.SSSR, 1957. 109 p.

(United States--Military telephone)

(United States--Military telephone)

KASUMOV, R.Ya.; TIMOFEYEV, B.B.

Problems concerning errors and data processing in measuring the frequency of string transducers in systems of centralized control with electronic digital computers. Izv. AN Azerb. SSR. Ser. fiz.mat. i tekh. nauk no.4:21-31 '63. (MIRA 16:12)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

Cimofeyeu C.B.

USSR/Magnetism - General Problems.

F-1

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 11953

Author

: Timofeyev, B.B.

Inst

: Tbilisi Scientific Research Institute for Construction

and Hydroelectric Power

Title

: Surface Effect in Massive Ferromagnetic Conductors.

Orig Pub

"Elektrichestvo", 1956, No 10, 66-70

Abstract

: It is proposed to approximate the fundamental curve of magnetization of a ferromagnet by means of the expression $B = AH + N \tan^{-1} (LH) - DH/1$ MH, where A, D, L, M, and N are coefficients. It is shown that such an approcimation describes sufficiently accurately the magnetization curves of low-carbon steel and of highly-alloyed transformer steel. Expressions are given for the fundamental harmonic of the induction B of the permeability for

Card 1/2

USSR/Magnetism - General Problems

F-1

Abs Jour : Ref Zhur - Fizika, No 5, 1957, 11953

> alternating current \nearrow , the ac impedance Z of the conductor, and for the apparent magnetic permeability in the case of the surface effect. 3n. All the derivations are based on neglecting the higher harmonics.

Card 2/2

SOV/137-58-10 21733

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p182 (USSR)

AUTHOR: Timofeyev, B, B.

TITLE: Measurement of Stresses in Steel by the Magnetoelastic Method (Izmereniye napryazheniy v stali magnitouprugim metodom)

PERIODICAL: V sb. Eksperim. izuch. mekhan. usiliy v gidrogeneratorakh. Moscow-Leningrad, Gosenergoizdat. 1957, pp 152-167

ABSTRACT: The magnetoelastic effect represents the physical interdependence between the state of stress and the magnetic properties of steel. Therein the maximum magnetic permeability
(MP) undergoes the sharpest variation as a result of mechanical stresses, and this is properly called the magnetoelastic
effect of steel. The latter manifests itself in different ways
depending upon the mutual orientation of the mechanical stresses and the magnetized layer. In the complex-stressed state
the three principal values of MP can be represented as the
principal values of the MP tensor, the directions of which
always coincide with the principal directions of the stress
tensor. The magnetization is produced by direct

Card 1/2 tensor. The magnetization is produced by direct - current and coil gage elements. The latter are seldom used. The

SOV/137 58 10 -21733

. Measurement of Stresses in Steel by the Magnetoelastic Method

direct current gage element consists of two power contacts with the specimen in the space between which two measuring contacts are located. When alter nating current is passed a voltage drop is observed between the measuring contacts which is related to MP and consequently to the mechanical stresses; therein the reactive component of the voltage drop is the more characteristic. A localized current supply is applied for nonuniform field in massive specimens. To visualize fully the stress distribution in the surface layers of steel articles, it is necessary to conduct simultaneous measurement of (1) the voltage drop and (2) the diffusion currents. Three and four electrode probes serve to achieve the first purpose and an indicator of magnetic anisotropy, IMA, developed earlier is employed to achieve the second purpose. A detailed description of the construction of the IMA-1 and some data of its operation are adduced. The reliability of the readings of the IMA-1 and the correctness of the gage action are systematically checked with a magnetic anisotropy standard.

1. Steel--Stresses 2. Steel--Magnetic properties 3. Stress V. O. analysis--Equipment

Card 2/2

TIMOFEYEV, B. B. Doc Tech Sci -- (diss) "Electromagnetic fields and the trumble "
peculiarities of the utilization of magnetoelastic electrode pickupe."

Tbilisi, 1958. 27 pp (Min of Higher Education USSR. Georgian Order of Labor Red Banner Polytechnic Inst im S. M. Kirov), 100 copies. Bibliography: pp 26-27 (KL, 13-58, 95)

-45-

TIMOFEYEV, B.B. (Tbilisi).

Skin effect in conductive plates having lumped contacts. Izv. AN SSSR. Otd. tekh. nauk no.9:11-18 S '57. (MIRA 10:12) (Electric conductors) (Differential equations, Partial)

Pa. 150715 TIMOFEYEV, B., B., "A High-Sensitivity Electrodynamic Wattmeter," B. B. Timofeyev, Cand Tech Sci, 2 3/4 pp tions from a rotating mirror) developed in Elec Eng Lab, Tbilisi Sci Res Inst of Constr USSR/Electricity - Instruments, Electrical Oct 49
Wettmeters, Electrodynamic a zero indicator but as a high-sensitivity lowments (optical reading with multiple reflecohms, which correspond to power consumption of $15-25 \times 10^{-6}$ VA full scale. Found meter to range wattmeter with suitable temperature and Hydropower, which can be used not only as Describes portable electrodynamic OMOVZ instru-"Elek Stants" No 10 schemes and vibrating galvanometers. have several advantages over usual bridge full-scale deflection for currents of 1.5-2.5 USSR/Electricity compensation in the voltage circuit. amp with internal resistance of 400-500 Instruments, Electrical Oct 45 (Contd) 150II15 Obtains 150T15

TER-GAZARYAN, G. N., TIMOFEYEV, B. B.

Dynamos

Out-of-balance operation of a heavy dyrogenerator. Elek. sta. 23 no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 19572 Uncl.

Timoreyev, B.B.

AID P - 1211

Subject

: USSR/Electricity

Card 1/1

Pub. 27 - 6/34

Author

Timofeyev, B. B., Kand. of Tech. Sci.

Title

BRIDGE STATE STATE STATE OF THE : Skin effect in massive ferromagnetic bodies with weak

fields and negligible hysteresis

Periodical

: Elektrichestvo, 12, 29-32, D 1954

Abstract

The author develops a method of solving the problem of skin effect caused by a sinusoidal current flowing in massive ferromagnetic conductors. He accounts for the nonlinearity of permeability when fields on the surface are weak. The solution is based on the utilization of the close relationship existing between permeability and field intensity, and disregards histeresis losses. The author expresses the curve of static permeability as the sum of a constant and of a sinusoidal function. Three diagrams, 3 Russian references (1939, 1948, 1949).

Institution:

Tbilisi Scientific Research Institute of Construction and Water Power Engineering (TNISGEI)

F 22, 1954 Submitted

I MORE HELDER

Subject

Card 1/2

: USSR/Electricity

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Pub, 27 - 13/32

Author

: Timofeyev, B. B., Kand. of Tech. Sci.

Title

Calculation of conditions of concentrated electrodes

AID P - 3446

in magneto-elastic measurements

Periodical

: Elektrichestvo, 10, 53-56, 0 1955

Abstract

: The author discusses the problem of surface distribution of the electromagnetic field at the inflow of the a-c into a massive conducting body through one or several conductors perpendicular to the body's surface. Permeability and specific conductivity of the body are assumed to be constant. A method of calculating voltage drop on the surface is investigated for the case of a separate contact, allowing for a non-linear relationship between permeability and field intensity. A numerical

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

AID P - 3446

Elektrichestvo, 10, 53-56, 0 1955

Pub. 27 - 13/32 Card 2/2

example is presented and analytical solutions are favorably compared as closely coinciding with experimental data. The author presents his considerations on the selection of the current value at which the manifestation of the magnetoelastic effect attains its maximum. A corresponding numerical example is given. One photograph, 3 diagrams, 3 Soviet references (1949-1954).

Institution : Tbilisi Scientific Research Institute of Installations

and Hydro Power Engineering

: S 30, 1954 Submitted

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

TIMOFETEV, B.B. (Tbilisi)

A.C. current penetration into Metallic solids through point contacts.

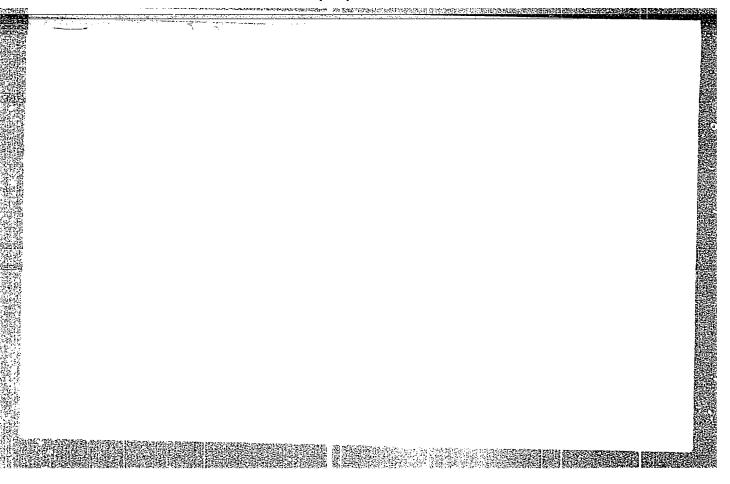
Izv.AN SSSR. Otd.tekh.nauk ne.3:23-38 Wr '56. (HLRA 9:7)

(Electric conductivity)

THMOFEYEV, B.B., kandidat tekhnicheskikh nauk.

Resistance of steel to alternating current. Elektrichestvo no.5:
(MLRA 9:8)
50-54 My '56.

1. Tbilisskiy nauchno-issledovatel'skiy Institut soorusheniy i
gidroenergetiki.
(Steel--Electrical properties) (Electric conductors)



TIMOFEXEU, B. B

PA - 3112

AUTHOR:

Candidate of technical Science TIMOFEYEV, B.B.

TITLE:

An Instrument for Investigating Magnetic Anisotropy. (Pribor dlya issledovaniya magnitnoy anizotropii, Russian).

Elektrichestvo, 1957, Nr 5, pp 72 - 74 (U.S.S.R.)

PERIODICAL: Received: 6 / 1957 Reviewed: 7 / 1957

ABSTRACT:

A method is described by the help of which one can quickly determine the degree of magnetic anisotropy as well as the orientation of its main directions without destroying the engendered products. The plan shows that with the presence of a homogeneous magnetic anisom tropy and when the two main directions lie parallel to the surface of the body a distortion of the magnetic field takes place in the vicinity of the point of connection of the conductors, and a dispersion flow appears which crosses the surface of the body. A certain divergence of the phases from the dispersion and current flow as well as the fact of a form distortion of magnetic induction curve (caused by the fact that the demagnetization process does not run linearly or with equal sign) does not injure the essential property of the dispersion fields in question. This property consists of the fact that the "zero lines" (lines along which the perpendicular projection of the vector of the magnetic field is equal to zero) coincide with the main directions of the magnetic anisotropy. There follows a description of a simple apparatus for the investigation of the magnetic anisotropy. The chief defect of this machine is the

Card 1/2

An Instrument for Investigation Magnetic Anisotropy.

PA - 3112

very strong sensitivity of its indicators to foreign magnetic fields. The appearance of the magnetic anisotropy is dependent on the voltage of the magnetic field and hence on the intensity of the current. This is to be controlled very strictly during the process and the current frequency is to be held constant. (With 5 illustrations

ASSOCIATION:

The Scientific Research Institute of Work and Water Energy of Tiflis. (Tbilisskiy nauchno-issledovatel'skiy institut sooruzheniy i gidro-energetiki.)

PRESENTED BY:

SUBMITTED:

15.10.1956

AVAILABLE:

Library of Congress

Card 2/2

TIMOTEYEY, 18 15.

AUTHOR: Timofeyev, B. B. (Tbilisi)

24-9-2/33

TITLE: Surface effect in a conducting plate in the case of concentrated contacts. (Poverkhnostnyy effekt v provodyashchey plastine pri sosredotochennykh kontaktakh)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1957, No.9, pp.11-18 (USSR)

ABSTRACT: It is of theoretical and practical interest to determine the character of the distribution of alternating current and of the magnetic flux of industrial or sonic frequency in the depth of a metallic plate in the case that the current flow proceeds through concentrated contacts. The necessity for solving such a problem arose in conjunction with the development of a magneto-elastic pressure gauge. Transverse dimensions of the diaphragm used in pressure gauges are usually so large relative to their thickness that it is not necessary to take into consideration the influence of the diaphragm edges on the surface effect in the neighbourhood of concentrated contacts located near to its centre. This corresponds to the assumption of a plate of infinite dimensions. For solving this problem the results are used which were obtained by the author in an earlier paper "Penetration of a.c. into a metallic body through concentrated contacts" (fed via rectilinear wires Card 1/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

Surface effect in a conducting plate in the case of concentrated contacts.

which are perpendicular to the surface of the body) (same journal, 1956, No.3). The use of the derived equations is illustrated on an example relating to determining the intensity of the current flowing across a plate delimited by a circle of the radius r cut at the central surface of the plate, the centre being the origin of the coordinates and assuming that the diameter of the conductors feeding the current is infinitely small and the intensity of the current flowing through one of the conductors is equal to the current flowing through the other conductor. For this example the results are plotted in graphs, Figs. 2 and 3. It can be seen that the fraction of the current flowing across the plate decreases relative to the current flowing through the lead with increasing relative thickness of the plate; in the case of very thick plates, the current flowing through the plate becomes insignificantly small and the current flowing along the surface layers of the plate becomes practically equal to the current flowing through the leads. In the case of very small relative plate Card 2/3 thicknesses, almost the entire current flows through the plate. The here derived formulae, eqs. (21), (22) and

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

Surface effect in a conducting plate in the case of concentrated contacts.

(26) can also be derived by applying the "primary excitations" of Zommerfel'd, A. (Ref. 3). There are 3 figures and 3 references, all of which are Slavic.

SUBMITTED: September 13, 1956.

AVAILABLE: Library of Congress.

Card 3/3

TIMOFEYEV, B.B., doktor tekhn. nauk, otv. red.; BEREZINETS, L.P., red.

[Cybernetics and computer technology] Kibernetika i vychislitel'naia tekhnika. Kiev, Naukova dumka, 1964. 118 p.
(MIRA 17:12)

1. Akademiya nauk URSR, Kiev. Institut kibernetiki.

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Tenteyer, B. B. Conter of terring	La de Carangkha A. L.
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FITLE: Fligh-efficiency broadband modulation in	agnetic heads 25 31
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SOURCE: Avtomatika i priborostroyeniye, no.	1, 1964, 37-40
	ities magnetic data roading
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are reported. Orig. art. has: 5 figures.

ASSOCIATION: Institut kibernetiki AN UkrSSR (Institute of Cybernetics,

AN UKISSR)

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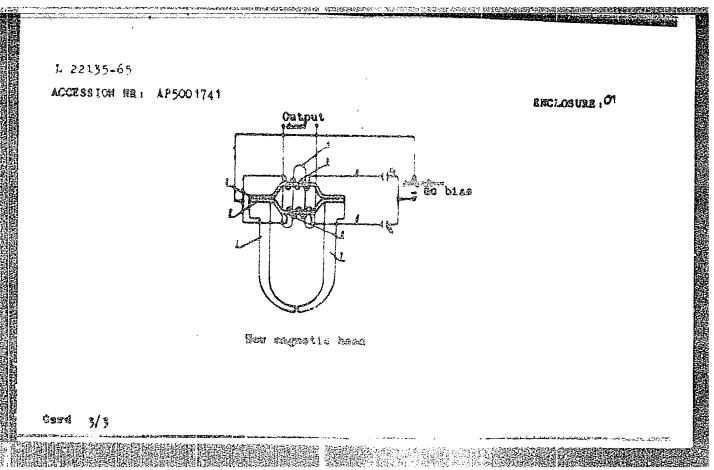
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GLUSHKOV, V.M., otv. red.; KUKHTENKO, A.I., zam. otv. red.;
BLAGOVESHCHANSKIY, Yu.V. red.; DORODNITSYN, A.A., red.;
YERSHOV, A.P., red.; LYAPUNOV, A.A., red.; MOSKALEV,
I.S., red.; PUKHOV, G.Ye., red.; ROSTUNOV, T.I., red.;
SAMOKHVALOV, K.G., red.; STOGNIY, A.A., red.; TIMOFEYEV.
B.B., red.; SHCHERBAN', A.N., red.; LETICHEVSKIY, A.A.,
red.; KAPITONOVA, Yu.V., red.; MEL'NIK, T.S., red.

[Problems of theoretical cybernetics] Voprosy teoreticheskoi kibernetiki. Kiev, Naukova dumka, 1965. 209 p. (MIRA 18:9)

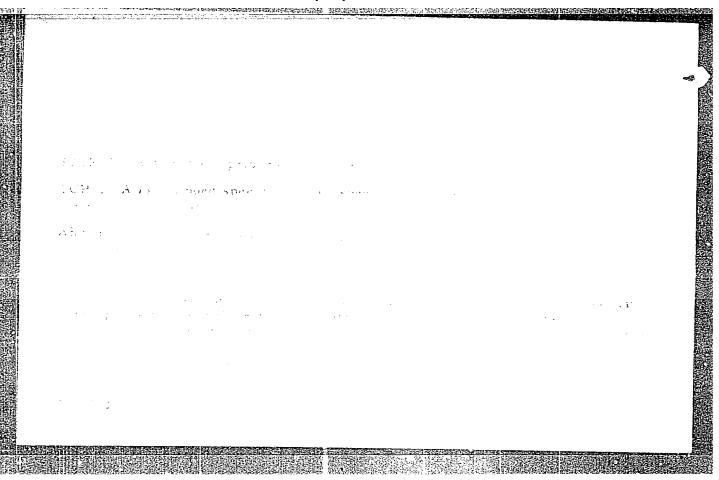
1. Akademiya nauk URSR, Kiev.

"我们的是是我们的人,就是我们是这些,我们们是我的联系的是我们的好了。" 医无路径的 化二二二苯基苯甲基

KONDALEV, Andrey Ivanovich; IIMOFEYEV, B.B., doktor tekhn. neuk, otv. red.; YEVSEYENKO.AISYURENKO, I.V., red.

[Data form converters] Preobrazovateli formy informatsii. Kiev, Naukova dumka, 1965. 175 p. (MIRA 18:8)

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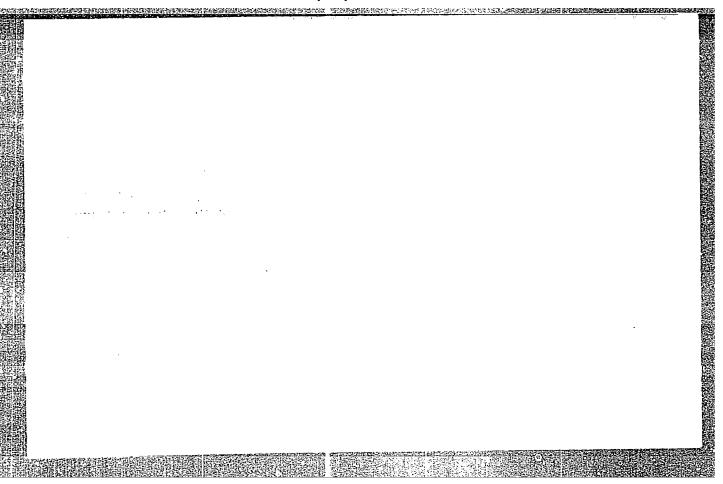
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ZAYTHON, V.G. (Zattoev, V.H.) (Kiyev); TIMOFEYEV, B.B. [Tymofelov, B.B.]

(Piper)

Recognition of speech. Avtomatyka 10 nc.2:39-44 (65.)

(MIRA 18:6)



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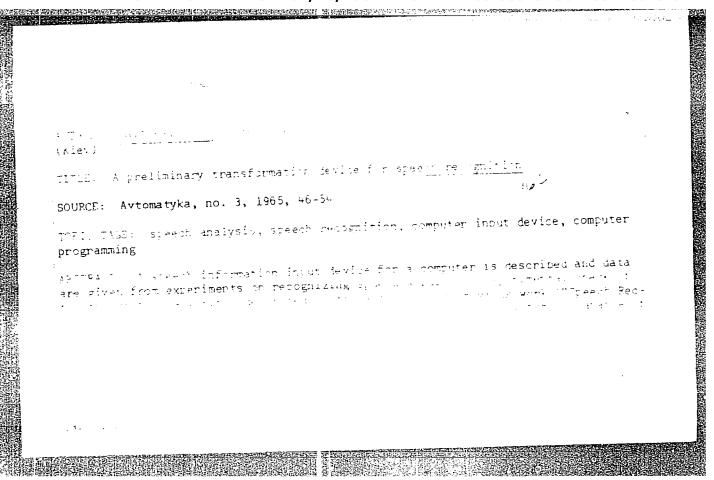
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ZAYTSEV, V.G. [Zaitsev, V.H.] (Kiyev); TIMOFEYEV, B.B. [Tymofeiev, B.B.]
(Kiyev)

Device for preliminary transformations in speech cognition.
Avtomatyka 10 no.3:46-54 '65.

(MIRA 18:7)



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TIMOFEYEV, B.B., doktor tekhn. nauk; TARANUKHA, A.I.; PORITSKIY, C.V., kand. tekhn. nauk

Wide-band modulation magnetic blocks with high yield. Avt. i prib. no.4:37-40 C-D '64 (MIRA 18:2)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755710019-5"

JJP(c) - JD EWT(1)/EWT(m)/EWP(t)/ETI L 04646-67 SOURCE CODE: UR/0201/66/000/002/0035/0038 AP6024002 ACC NR: AUTHOR: Timofeyey, B. D. ORG: Institute of Nuclear Power, AN BSSR (Institut yadernoy energetiki AN BSSR) TITLE: Semiautomatic installation for an experimental investigation of the viscosity of aggressive gases SOURCE: AN BSSR. Vesti. Seryya fizika-tekhnichnykh navuk, no. 2, 1966, 35-38 TOPIC TAGS: gas viscosity, fluid viscosity measurement, nitrogen oxide, critical point, dissociated gas ABSTRACT: The author describes an installation developed at IYaE AN BSSR for the investigation of viscosity of aggressive gases (specifically, nitrogen tetroxide) ? The installation makes possible experiments in the temperature range from 20 to 500C and at pressures up to 100 bar. The viscosity measurement is by the dropping-load method. Although doubts have been expressed concerning the applicability of this method to gases, it is shown that when the equipment is suitably constructed, it gives reliable results. The apparatus was constructed with Professor D. L. Timrot as consultant. In the equipment (Fig. 1) the gas is placed in a heated sealed chamber and the viscosity is determined by the velocity of a freely falling piston in a tube. A radioactive source (Co60) serves as a pickup to determine the time of motion of the piston inside the tube. The appropriate electronic circuitry was developed in the isotope laboratory of ITMO AN BSSR. The viscosity is calculated from the rate of drop of the

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Card 1/2

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ACC NR: AP6024002

piston by means of a formula which is derived from the analysis of the total resistance of laminar flow of gas in an annular gap, with allowance for the friction, kinetic energy, resistance due to the expansion of the gas, and temperature corrections connected with thermal expansion of the viscosity meter body and the change in density of the investigated medium. Other details of the apparatus and of the measurements are described. The apparatus was used for experimental investigation of the viscosity of dissociating N2O4 in the temperature range 20 - 520C and at pressures 1 - 60 bar. In addition,

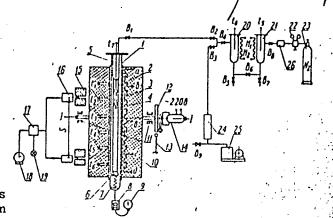


Fig. 1. Schematic diagram of installation for the measurement of gas viscosity.

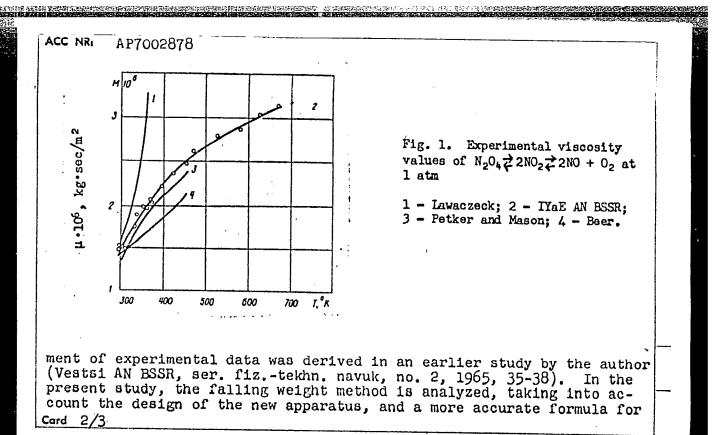
the viscosity of N_2O_4 at the critical point and near the critical region was investigated. The experimental results will be published after the data reduction. The author thanks Professor D. L. Timrot for consultation and useful advice. Orig. art. has: 2 figures and 1 formula.

SUB CODE: 18, 14/ SUBM DATE: 29Sep65/ ORIG REF: 004/ OTH REF: 003

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Card 2/2

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	ACC NR. AP7002878 (A) SOURCE CODE: UR/0201/66/000/004/0027/0031
i	AUTHOR: Timofeyev, B. D.
•	ORG: Institute of Nuclear Power Engineering, AN BSSR (Institute of Nuclear Power Engineering, AN BSSR)
	TITLE: Experimental study of the viscosity of nitrogen tetroxide at
•	SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 4, 1966, 27-31
	TOPIC TAGS: nitrogen tetroxide, gas viscosity, viscosity measurement
	ABSTRACT: A study has been made of the viscosity of nitrogen tetroxide by the falling weight method. This method was Mirst proposed by F. Z. Lawaczeck. However, the original method yields inaccurate results, and certain authors deny its applicability to gas viscosity sults, and certain authors deny its applicability to gas viscosity measurements. Therefore, a new semiautomatic apparatus with guiding measurement
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ACC NR AP6033071 SOURCE CODE: UR/0201/66/000/003/0129/0134 AUTHOR: Bubnov, V. P.; Gusarov, V. N.; Kuleshov, G. G.; Nesterenko. V. B.; Timofeyev, B. D. ORG: IYAE AN BSSR TITLE: Experimental study of P-V-T properties of dissociating nitrogen tetroxide SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 3, 1966, 129-134 TOPIC TAGS: nitrogen tetroxide, dissociation, P V T property, specific weight ABSTRACT: P-V-T properties of dissociating nitrogen tetroxide have been determined at 420-720C and 25-60 kg/cm². The study was undertaken because of the absence of literature data on these properties at higher temperatures and pressures. The experimental and calculation procedures are described in the source. The results of the study are given in Table 1. These results are in good agreement (difference + 2%) ich those obtalized by the fire service is the Card 1/4

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Card 2	630 640 650	2,349 2,354 2,361	2,309 2,317 2,326	2,267 2,274 2,282	2,219 2,227 2,244	2,183 2,194 2,204	2,149 2,161 2,167	2,119 2,130 2,140	2,086 2,096 2,106	••		

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*	Table	1. (Cont.)		•	
660 670 680 690 700 710 720	2,368 2,331 2,289 2,372 2,336 2,298 2,375 2,341 2,304 2,378 2,346 2,311 2,381 2,351 2,318 2,383 2,357 2,324 2,386 2,362 2,330	2,251 2,213 2,259 2,223 2,268 2,233 2,272 2,243 2,281 2,250 2,290 2,257 2,298 2,264	2,179 2,148 2,114 2,186 2,156 2,125 2,198 2,164 2,135 2,206 2,172 2,144 2,213 2,181 2,152 2,220 2,189 2,160 2,226 2,197 2,168		
420 430 440 450 460 470 480 	40,0 51,3 64,4 37,0 46,6 57,5 34,2 43,0 82,9 32,1 40,3 49,2 30,4 37,8 46,0 28,8 35,7 43,3 27,5 34,0 41,0 26,4 32,5 39,0 25,4 31,2 37,4 24,6 30,2 36,1	79,9 97,8 70,3 85,4 64,0 76,6 59,0 69,8 54,8 64,5 51,3 60,0 48,4 56,4 45,9 53,3 44,0 50,9 42,2 48,7	119,6		
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	650 660 670 680 690 700 710	16,0	20,8 20,4 20,1 19,8	25,2 2 24,7 2 24,2 2 23,8 2 23,4 2 23,0 2	29, 2 28, 7 28, 1 227, 7 31 27, 2 36, 7 31 32 31 32 31 32 31 32 31 32 31 32 31 32 31 32 31 32 32 31 32 32 31 32 32 31 32 32 32 32 32 32 32 32 32 32	1,1 38,5 37,7 2,8 37,0 2,2 36,3 1,6 35,6 1,0 35,0 0,5 34,4 0,0 33,9	42,1 41,3 40,6 39,8 39,1 38,4	47.6 46.7 45.7 44.8 44.0 43.2 42.5	. 		•
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TIMOFFYEY, B.D.; SHARYPIN, V.I.

Installation for experimental determination of viscosity of organic heat agents with a high melting point. Inzh.-fiz. organic heat agents with a high melting point. Inzh.-fiz. zhur. 6 no.10:109-111 0 '63. (MIRA 16:11)

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AUTHOR: Nesterenko, V. B.; Timofeyev, B. D.; Il'yukhin, Yu. D.

ORG: Institute of Nuclear Power Engineering, AN BSSR (Institut yadernoy energetiki AN BSSR)

TITLE: Experimental study of the heat capacity of nitrogen tetroxide in equilibrium dissociation

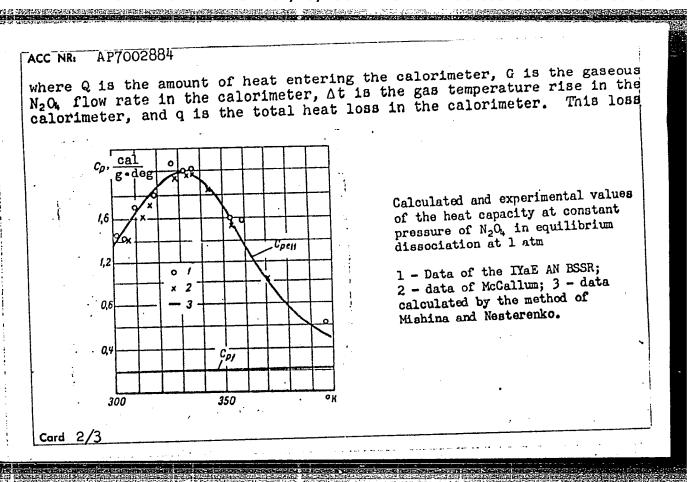
SOURCE: AN BSSR. Vestsi. Seryya fizika-tekhnichnykh navuk, no. 4, 1966, 123-125

TOPIC TAGS: nitrogen tetroxide, heat capacity

ABSTRACT: The effective heat capacity of N₂O₄ dissociating at 1 atm and 300—400K has been determined experimentally. The experiments were carried out in a continuous-flow calorimeter, equipped with an isothermal jacket, designed at the Institute of Nuclear Power Engineering, Academy of Sciences BSSR (IYAE AN BSSR). The apparatus and the procedure are described in the source. The effective heat capacity at constant pressure was calculated from the formula

$$c_{peff} = \frac{Q - q}{G\Delta t},$$

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TIMOFEYEV, B.F.

"Spores and phytoplankton of the Proterozoic and the Cambrian."

Report to be submitted to the Intl. Conf. on Palynology, Tucson, Arizona 23-27 Apr 1962.

Leningrad, Petroleum Inst., All-Union Petroleum Scientific Research Geological Prospecting Inst.

